

DODIN, M.G.; GERSHANOVICH, N.L.

REMARKAGEMENT OF GENTLE OZENA. Vest. storinolar. No.3:

BEREAU

72-74 May-June 50. (CLML 19:4)

1. Of the Central Scientific-Research Institute of Otolaryngology of the Ministry of Public Health RSFSR (Director -- Honored Worker in Science Prof. V.K.Trutney).

OROMOV, F.N.: GERSHANOVICH, N.L.; SMIRHOVA, A.M.; SHCHEYHOVA, R.G.

Vasilii Ipat'evich Onokhrienko. Vest.otorinolar. 12 no.2:81 Mr. Ap
'50. (CIML 19:2)

1. Obituary.

GERSHANOVICH, N.L.; GROMOV, P.N.

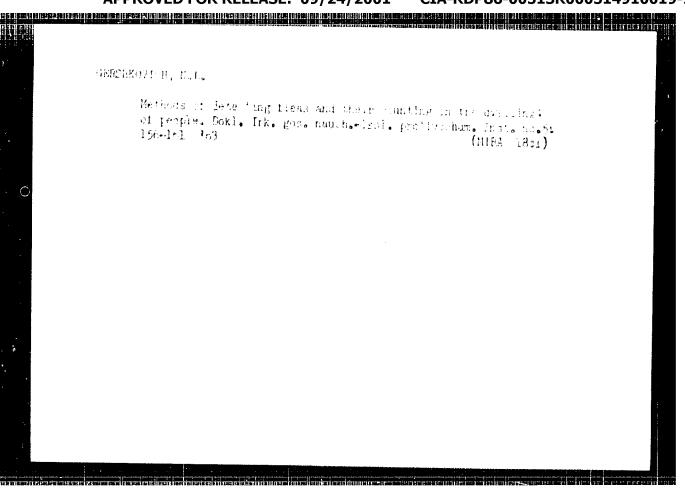
Effect of prolonged use of hearing aids on hearing. Vest. otorinolar., Moskva 14 no. 3:93 May-June 1952. (CIML 22:4)

1. Of the Polyclinic for Hearing and Speech of the Administration of Cost Accounting Therapeutic Institutions of Moscow Municipal Public Health Department.

GERSHANOVICH. N. L.. Doc Med Sci -- (diss) "Author's paper on the theme, 'Data on etiology, pathogenesis, historathology, and clinicate observations of chronic inflammations of the maxillary sinus'." Mos. 1958. 28 pp. (State Sci Resemble Inst of Ear.

Throat, and Nose of Min at Health RSFSR), 100 copies. (KL,9-58, 122)

- 123 -



ETINGOF, R.N.; GERSHANOVICH, V.N.

Inverse Pasteur effect in ascitic cancerous cells of mice. Biokhimiia 18 no.6:668-674 N-D '53. (MLRA 6:12)

1. Kafedra biokhimii 1-go Moskovskogo meditsinskogo instituta. (Fermentation) (Puthology, Cellular)

#### CIA-RDP86-00513R000514910019-1 "APPROVED FOR RELEASE: 09/24/2001 A DE A DE A DESCRIPTURA DE ANTONIO DE SALES ANT RESEA DE ANTONIO DE SALES ANTONIO DE SALES ANTONIO DE A

V-4

GeRShanovich Y. IV.

USSR/Human and Animal Physiology - Blood.

: Ref Zhur - No 1, 1958, 3897 Abs Jour

: V.N. Gershanovich Author

Stalinabad Medical Institute. Inst

: Vitamin B<sub>12</sub> Metabolism in Subtropical Anemias. Title

: Tr. Stalinab. med. in-ta, 1955, 16, 63-75 Orig Pub

: In patients with blood and liver diseases, the levels of vitamin B<sub>12</sub> in blood and urine were microbiologically Abstract

determined; some of the patients received a load of 15 y of the vitamin. In a control group, not including blood and liver patients, the 24-hour urine contained 20-60 my of vitamin  $B_{12}$ , at a 140-340  $\mu$ /ml of Vitamin  $B_{12}$  level in the serum (S) and a daily fluctuation of this level of 20-60  $\mu$ /ml. Loading with  $B_{12}$  produced an

increase of the amount of the vitamin in the S after

Card 1/2

GERSHANOVICH, V. N. Cand Med Sci -- (diss) "The Metablism of Vitamin B<sub>12</sub> st Subtropical Anemias." Stalinabad, 1957. 13 pp 21 cm. (Stalinabad Medical Inst im Abuali Ibn-Sino (Avicenna)), 100 copies (KL, 17-57, 99)

HAD BY

- 64 -

GERHSNOVICH, V.N., AGOL, V.I., KTINGOY, R.N., DZAGUROV, S.G.

Characteristics of metabolism in kidney tissue cultures of monkeys.

[with summary in English]. Biokhimiia 23 no.3:453-460 My-Je 158

(MIRA 11:8)

1. Laboratoriya biokhimii Instituta po izucheniyu poliomielita AMN SSSR, Moskva.

(XIDNEYS, metabolism,

in tissue culture (Rus))

AGOL, V.I.; GERSHANOVICH, V.N.; ETINGOF, R.N.

Comparative characteristics of metabolism in cultures of normal and tumorous cells [with summary in English], Biokhimiia 24 no.1: 101-109 Ja-F 159.

(MIRA 12:4)

1. Biochemical Laboratory of the Poliomyelitis Research Institue,
Academy of Medical Sciences of the U.S.S.R., Moscow.

(TISSUE CULTURE,

comparative metab. aspects of normal & tumor tissue
cultures (Rus))

(NEOPLASMS, metab.

ARTE BERTANGEN AND SPECIAL BERTANGEN BARTANGEN BERTANGEN BERTANGEN

\$/218/62/027,001/001/001

Gershanovich, V. N., Palkina, N. A., and Katts, G. I.

OXIDATIVE METABOLISM OF STAPHYLOCOCCUS AUREUS AND OF ITS MUTANT

OBTAINED BY UV-IRRADIATION

Periodical: Biokhimiya, v. 27, no. 1, 1962, 109-119

The S. aureus mutant (St-VV-3) shows sensitivity to carcinostatic substances. It was therefore of interest to compare the pathways of osidative metabolism in the mutant and the present strain (St-209) and to see whether the mutant could be considered as a model of a cancerous cell. The present strain St-269 showed a high O<sub>2</sub> uptake in the presence of glucose, also oxidizing pyruvate, lactate, acetaldehyde, formaldehyde, ethanol, formic acid, OAA and malate. Under anaerobic conditions St-209 actively decarboxylated pyruvate and OAA. Monoiodoacetate (0.2 mM) completely inhibited the utilization of glucose and accumulation of lactate by St-209. In contrast to the parent strain, St-UV-3 showed no increase in oxygen uptake in the presence of glucose, but unlike the former, was able to oxidize a number of TCA cycle intermediates Under anaerobic conditions St-UV-3 exhibited only slight pyruvic and OAA decarboxylation. The Q<sub>CO2</sub>/Q<sub>O2</sub> ratio for pyruvate was higher than 2 in strain St-209, while in St-UV-3 it was close to 1. The effect of arsenite,

Card 1/2

Authors:

Title

OXIDATIVE METABOLISM ...

S/218/62/027/001/001/001 1016/1216

malonate, cyanide and orthophosphate on the oxidation of different substrates by the two strains was compared. The results are discussed in terms of the possible defect imparted to the respiratory system of St-UV-3 as a result of mutation. The properties of the respiratory system of the mutant are compared with those of tumor cells.

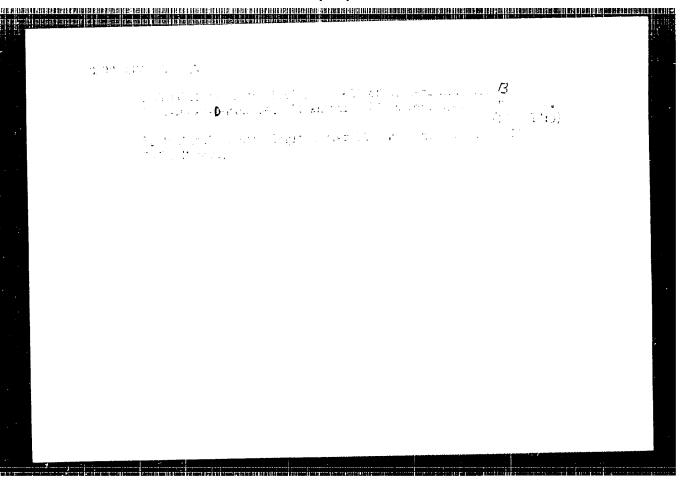
Association: Gosudarstvennyy kontrol'nyy institut meditsinskikh biologicheskikh preparatov im L A

Tarasevicha (State Institute for Control of Medicinal Biological Preparations im. L. A. Ta-

rasevich), Moscow

Submitted June 27, 1961

Card 2/2



GERSHANOVICH, V.N.

Some problems concerning the regulation of enzymatic activity and synthesis in bacteria. Vest. AMN SSSR 18 no.12:74-24. '63. (MFA 17:7)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

GERSHANOVICH, V.N.; AVDEYEVA, A.V.; GOL'DFARB, D.M.

Release of the enzymes of the glucose transformation system from the spheroplasts of Escherichia coli B obtained under the influence of the "ghosts" of the even series of T phase.

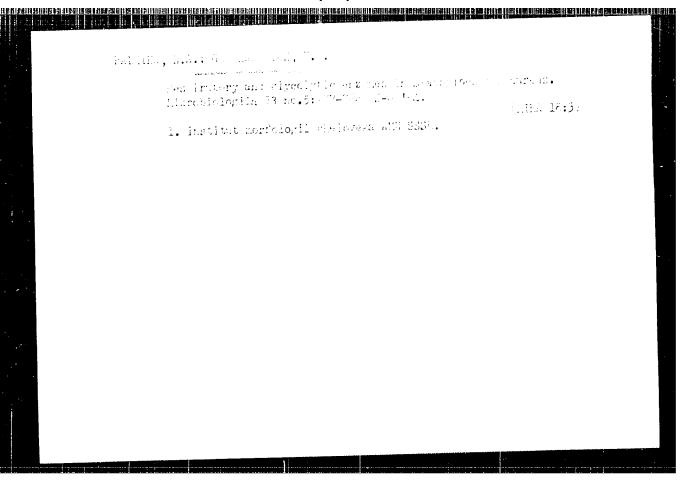
Biokhimiia 28 no.41700-708 Jl-Ag '63. (MIRA 18:3)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, Moskva.

GERSHAUCZEH, V.P., Schep, d.i.

Cynthedis of Gentroptonyl-fideratur pyranesids. Vol.mei.khim. 10
a.c.21k-233 Mr-ap 164.

1. Institut epidemiologic v schroboorgic ironi N.F.Gaselet MM CSSR,
Moskva.



GERSHANOVICH, V.N.; PALKINA, N.A.; BURD, G.I.

Regulation of the synthesis of oxidative enzymes in Staphylococcus aureus by the end products of glycolysis. Biokhimiia 29 no.1: 97-109 Ja-F 164. (MIRA 18:12)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR i Institut morfologii cheloveka AMN SSSR, Moskva. Submitted May 9, 1963.

GOL\*EFERB, T.M.; DEYFY, F.A.; GERMANOVICH, V.M.

It go reproduction in spheroplasts of Escherichia coll produced with the help of lybic enzyme of the phage T2, Mikrobiologiia 34 no.42648-652 Jl-Ag \*65. (MTPA 18:10)

1. Institut opidemiologii i mikrobiologii iment N.F.Gnmalei AMN SESE.

Bendarder, v.M.; averay, m.r.; a strayer, v.J.; bisszatta, v.J.;
cershamver, fu.C.

Fiber formation from polypropylene. Edin. volck. na.6:10-13 '65.
(NIRA 18:12)

1. Vsesovaznyy manchno-issledovatel'skiy institut iskusetvennogo
velokna (for Bondarenko, Zverev, Klimenkov). 2. Kurskiy kombinat
(for Berezkina, Gershanovich).

L 27707-66 EWT(1) SCTB DD	
ACC NR. AP6017295 SOURCE CODE: UR/0301/66/012/003/0262/026532	
AUTHOR: Gershenovich, Z. S.; Gershenovich, A. Z.; Odnokrylaya, L. A.; Emirbekov, E. 2 Veksler, Ya. I.	
ORG: Department of Biochemistry, State University, Rostov-na-Donu (Kafedra biokhimli gosudarstvennogo universiteta); Central Scientific Research Laboratory, Medical Institute, Rostov-na-Donu (Tsentral'naya nauchno-issledovatel'skaya laboratoriya meditsinskogo instituta); Experimental Laboratory SKVO, Rostov-na-Donu (Eksperimental'naya laboratoriya SKVO)	
TITLE: Effect of impact acceleration on nitrogen metabolism in the rat brain  SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 3, 1966, 262-265  TOPIC TAGS: impact acceleration, animal physiology, acceleration, nitrogen metabolism	
ABSTRACT: Ninety white laboratory rats (weight 130—160 g) were used to determine the effect of impact acceleration on the metabolic processes of the brain. The concentrations of free ammonia, glutamine, glutamate, asparaginate, and γ-aminobutyric acid, as well as of labile and stable bound amide group proteins were investigated. The rats were subjected to impact accelerations (250—300 m/sec²) in a chamber. These accelerations were arbitrarily designated as: weak (4—10 G), medium (11—24 G), and strong (>24 G). Three of the ten rats subjected to strong impact acceleration died. The rats were immersed in liquid air 15—20 min after exposure and the frozen brain, excluding the cerebellum, was removed. The meninges were removed, the brain was pulverized in liquid air, and was transferred in a powdery form for precipitation of **	
Card 1/2 - UDC: 612.82.015.347.014.47:531.113	,

C NR: AP6017295						1	<b>U</b> ·
Table 1.	Metaboli			npact accelera	tions	>24 g	
Į.	ontrol_	4-10 15-20 min	g 3 hrs.	11 1520 min 4	3 hrs.	15—20 m	
Ammonia	0.86	1.68	0.84	1.97	2.02	. 3.19	
Glutamine	7.39	6.51	7.18	5.57	5.40	4.1	
Glutamic Acid	127.	128.	123.	137.	118.	1i4.	
Aspartic Acid	36.4	39.6	40.8	41.5	32.3	31.3	
Aminchiyic Acid	23.8	23.6	25.1	28.4	18.7	55.6	
Labileamido Group	125.	127.	121.2	80.4	77.2	61.3	77 34 7 15
Stable-bound Amido Group	286.	280.	278.2	282.2	267.4	393.	
otein using chi oned fractions on on caused the r	were dete	rmined in the	supernata	inc Tidara. II	icteased Ti	e above me mpacb acce [L	-0-0
B CODE: 06 /	SUBM DAT	E: 10Sep64/	ORIG REF	002/ OTH R	EF: 004/	ATD PRESS	<b>5</b>

ACC NR: AP6025929

SOURCE CODE: UR/0301/66/012/004/0418/0424

AUTHOR: Bronovitskaya, Z. G.; Gershenovich, Z. S.; Koloushek, Ya.; Zikh, B.

ORG: Chair of Biochemistry, State University Rostov-na-Donu (Kafedra biokhimii Gosudarstvennogo universiteta); Institute of Biophysics, Hedical School, Karlov University, Prague (Institut biofiziki pri meditsinskom fakul tete Karlova universiteta)

TITLE: Oxidative phosphorylation of the brain and liver during the action of L-methionine-sulfoximin and increased oxygen pressure

SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 4, 1966, 418-424

TOPIC TAGS: brain metabolism, liver metabolism, combined stress, hyperoxia, phosphorus metabolism, oxidative phosphorylation, LIVER, RAT, BIOLOGIC RESPIRATION, BIOLOGIC METABOLISM, PHOSPHATE, OXYGEN ABSTRACT: L-methionine-sulfoximin (MSI) alters the content of adenylic components in the liver of rats. Six hr after MSI injection, the ADP and ATP content increases (30%), oxidative phosphorylation increases, and respiration is unaltered. Twelve hr after MSI injection there is an increase in the total content of adenylic system components. MSI does not alter the intensity of brain metabolism but depresses esterification of inorganic phosphates (34%). Exposure to oxygen under pressure (4 atm) for an hour increases both respiratory intensity and brain phosphoryla-

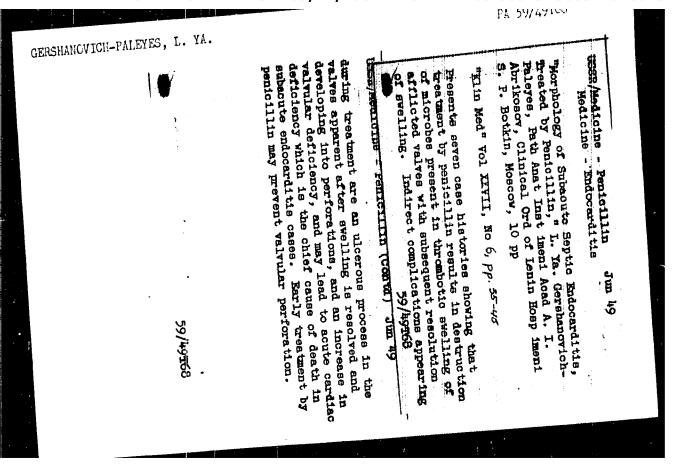
Card 1/2

UDC: 616.831+616.361-008.921.8-02:[615.777.818+612.274

ACC NR: AP6025929			**************************************		· · · · · · · · · · · · · · · · · · ·	
tion compared to the MSI to increased oxy reason for this is a ability of increased mechanism of action Orig. art. has: 4 to	gen pressur tered phos loxygen pre on the phos	re is elevat sphorus meta essure and M	ed compared bolism. It SI to preci	to control was conclu	s. Apparent	tly, one spite the
SUB CODE: 06/ SUB	DATE: 101	eb65/ ORIG	REF: 010/	oth ref:	005/ ATD F	PRESS: 5049
• .				• '		
•						
t	;			. •		

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514910019-1



GERSHAMOVICH-PALTIES, L. Ya.

"Pathologic 1 Anatomy of Subscute Sectic Endocarditis Treated With Penicillin." Sub 30 Jan 51, Central Inst for Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

GERSHANOVSKIY, O. and POLIKARPOV, M.

"USSR Planning of Industrial Gross and Commodity Production," Planovoye Khozyaystvo, No.3, 1955

Translation W-31722, 27 Mar 56

FOLIKARFOV, Mikheil Sergeyevich; GERSHANGVSKIY, Ovsey Molseyevich; ZHOLKEVICH, Anton Yevgen'yevich; STREL'NIKOVA, M.A., red.; FONCHAREVA, A.A., tekhn. red.

[Planning of industrial production in terms of costs] Planirovanie proizvodstva produktsii promyshlennosti v stoimostnom vyrazhenii. Moskva, Izd-vo ekon. lit-ry, 1961. 110 p. (MIRA 15:2)

(Industrial management)

KOLESNIKOV, M.S.; GERSHBAUM, P.S.; MIRONOVA, T.M.

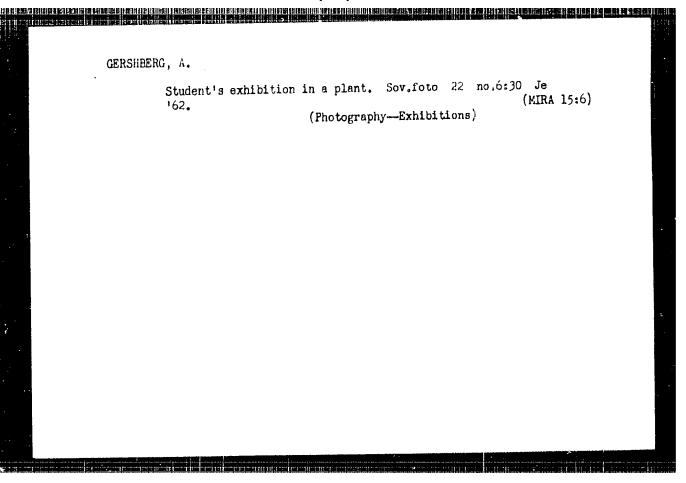
Limit of differentiated inhibition in rabbits of different ages.

Limit of differentiated inhibition in rabbits of different ages.

Trudy Inst.fiziol.AN BSSR 3:49-54 199. (MIRA 13:7)

1. Laboratoriya vysshey nervuoy deyatel nosti Instituta fiziologii AN BSSR.

(INHIBITION)



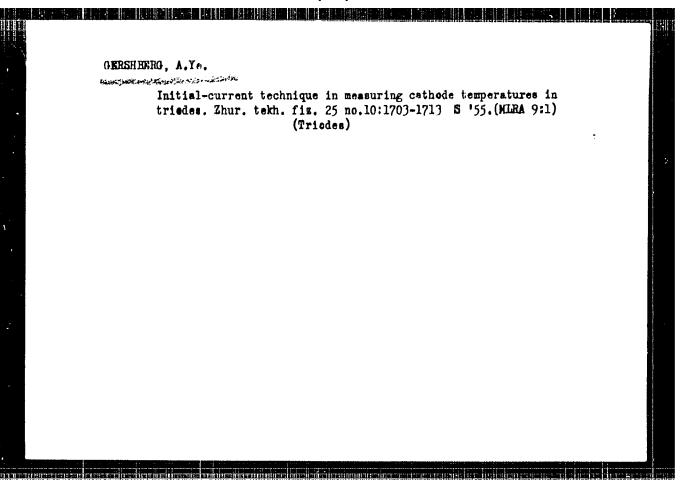
_ <b>G</b>	ERSHBERG, A. (Astrakhan')	
	On a newspaper assignment; amateur photographers in newspapers.  Sov.foto 22 no.11:33 N '62. (MIRA 16:1)	
	l. Spetsial'nyy korrespondent zhurnala "Sovetskoye foto".  (Astrakhan-News photographers)	
		1

<sup>#</sup> Cuba	n revolution in p	hotographs." Sov	.foto. 23 no.2:5 F (MIRA)	163. 1647)
	(Photograph	y-Exhibitions)	(Cuba)	10:4)

n indigrale en la estación de la contrata de la estación de entre entre entre entre entre entre entre entre en En la contrata de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata del contrata de la contrata del contrata del contrata de la contrata de la contrata de la contrata de la contrata del con	
GERSHBola, A. (Kazan)	
The needs of Kazan amateur photographers. Sov.foto 23 no.3:26 Mg (63. (MIRA 16.4)	
l. Spetsial nyy korrespondent zhurnala "Sovetskoye foto". (Kazan-Photography)	٠
	•
	Į,
·	

GERS	HBERG, A. L.
	"Functional Study of the Liver in Hepatic and Mechanical Jaundices," Klin. Med, 26, No. 1, 1948, Maj. Med Service, Nth Mil. Hospital.

GERSHBERG, A. L., kend. med. nauk (Kuybyshev) Treatment of some complications in myocardial infarction. Klin. (MIRA 14:12) med. no.11:141 161. (HEART-INFARCTION)



GERSHHERG, A. Ye.: Muster Tech Sci (diss) -- "The technological control of the current at the negative electrode in the production of electro-vacuum instruments". Lemingrad, 1958. 10 pm (Min Higher Educ USSE, Lemingrad Polytech Inst im M. I. Kalinin), 150 copies (KL, No 5, 1959, 189)

S/181/61/003/005/012/042 B101/B214

9.4300(1138,1147,1137)

AUTHOR:

Gershberg, A. Ye.

TITLE:

The role of space redistribution of charges in the kinetics of the inner photoeffect of highly resistant semiconductors

PERIODICAL: Fizika tverdogo tela, v. 3, no. 5, 1961, 1384 - 1392

TEXT: The following problem is treated in this paper. In inhomogeneous photoconductors or on inhomogeneous exposure of the photoconductor the transition to a new state of equilibrium is accompanied by a redistribution (RD) of the density of the charged carriers. This RD is of importance for the construction of television tubes and for the study of the kinetics of high resistance photoconductors. From these considerations the sluggishness of the photocurrent was measured on exposure of layers of  $Sb_2S_3$ .  $Sb_2Se_3$ , amorphous Se,  $Sb_2S_3$ ,  $AsSbSe_3$ , PbO and some mixtures of these. The sensitivity to light of these highly resistant substances  $(q=10^{11}-10^{14} \text{ ohm.cm})$  was so great that the resistance decreased to one hundredth of the dark resistance on exposure to 400 lux. The exposure Card 1/6

23107 \$/181/61/003/005/012/042 B101/B214

The role of space redistribution...

was made through KC-10 (KS-10) red filter or  $\Phi$ C-1 (FS-1) violet filter. The sluggishness was measured along and perpendicularly to the layer. The exposure was made in the interval of 2.10-2 sec periodically by means of a toothed disk or once (1 sec) by means of a shutter. The following quantities were measured: the time constant  $\tau_{\mbox{eff}}$  determined as the ratio between the maximum and the minimum photocurrent in periodic impulses and the "front constant"  $\tau_{f}$ . The experimental data showed strong scattering. 1) Sluggishness independent of the applied potential. Fig. 4 shows the results of measurements for Sb2S3.Sb2Se3. The sluggishness along and perpendicular to the layer had about the same value whether exposed to red violet or white light. Similar results were obtained with other substances also. From this it is concluded that inspite of greatly varied experimental conditions with regard to RD no great difference in the kinetics of the inner photoeffect appeared. Therefore, the RD has only a small effect on the kinetics of the change of conductivity. 2) Sluggishness dependent on the potential applied to the sample. This case appears a) in samples whose ratio of resistivities for different signs of the potential is particularly large (about 40 for U = +1 v); b) when the Card 2/6

S/181/61/003/005/012/042 B101/B214

The role of space redistribution ...

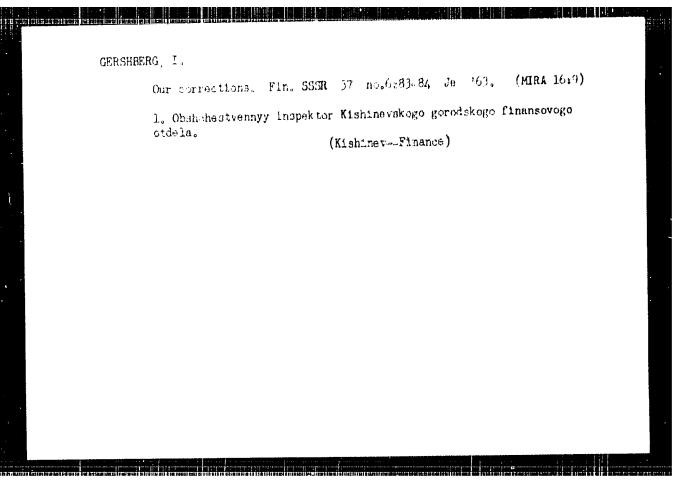
exposure is made from the side of the aluminum electrode. Fig. 6 shows the results of measurements for a Sb<sub>2</sub>S<sub>2</sub>.Sb<sub>2</sub>Se<sub>2</sub> layer. It is concluded that the dependence of the sluggishness on the potential is due to the contact effect on the Al electrode. Also the observed jump in the sluggishness when the potential passes through zero (Fig. 9) shows that the change in the kinetics is caused by contact effects. V. I. Il'ichev and G. N. Travleyev, students of LGU (Leningrad State University), assisted in the work. Ta. A. Oksman and M. V. Yepifanov are mentioned. There are 9 figures and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. The 4 references to English-language publications read as follows: R. V. Smith, Rose, Phys. Rev., 97, 1531, 1955; A. Rose, ibid. 97, 1538, 1955; J. R. Haynes, J. A. Hornbeck, ibid. 97, no. 2, 511, 1955; C. J. Shulman, ibid., 102, no. 6, 1451.

SUBMITTED: May 31, 1960 (initially)
January 5, 1961 (after revision)

Card '3/6

GERSHBERG, Anatoliy Yevgen'yevich; LAFUK, A.G., red.

[Television camera tubes using the photoconductive effect (vidicons)] Peredaiushchie televizionnye trubki, ispol'zujusichie vnutrennii fotoeffekt (vidikory). Moskva, Energiia, 1964. 239 p. (MIRA 17:11)

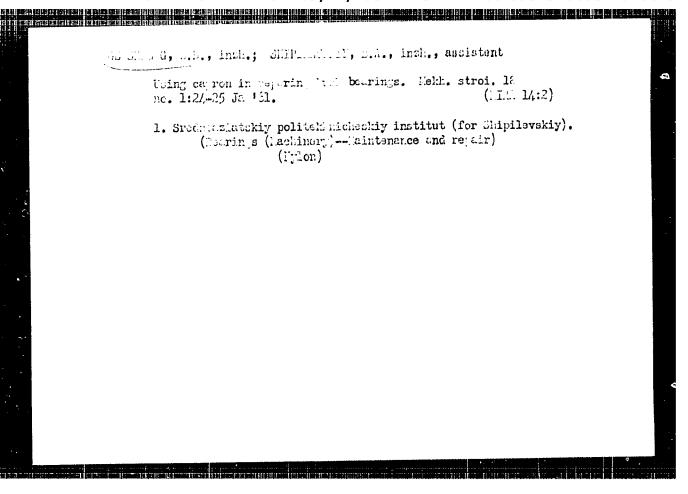


BLYASHOV, V.; GEFSHHERG, I.

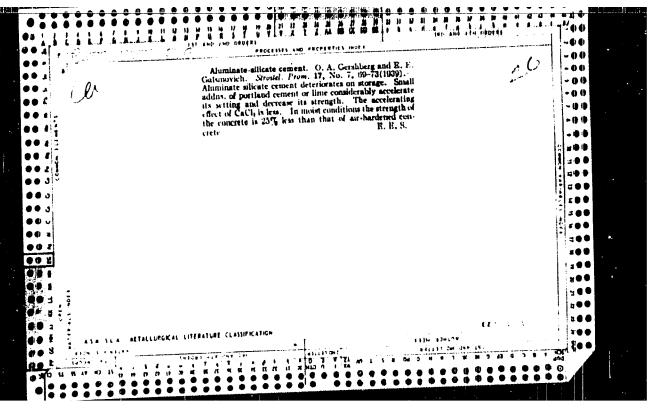
Is this expedient? Fin. SSSR 37 no.11:52 N'63. (MIRA 17:2)

1. Nachal'nik otdela gosudarstvennykh dokhodov Kishinevskogo gorodskogo finansovogo otdela (for Blyashov). 2. Obshchestvennyy inspektor Kishinevskogo gorodskogo finansovogo otdela (for Gershberg).

Fore metal	for the country.	Hoslava	Cospelitizdat, 1944.	62 p.	(52-47250)	
T105.04						



GERSHBERG, M.L.	
Production of vegetable caviar in vacuum apparatus. Kons. 1 ov. prom. 12 no.3:1-5 Mr '57. (MLRA 10:5)	
1. Stalingradskiy konservnyy zavod. (Cooker (Vegetables)) (Vacuum apparatus)	



GERCHBERG, C. A.

Factories of reinforced concrete products Moskva, Gos. izd-vo stroit. lit-ry, 1951
247 p. (52-21701)

TAUUH.G4

1. Reinforced concrete. 1. Soroker, V. 1., jt. au.

	BENEFIT WESTERNAL STREET						
CERSHBERG, O.A.	200T86	describes equipment. Describes testing for frost resistance and presents comparative results.	ussr/Engineering - Hydraulics, Methods Nov 51 (Contd)	In 1950, for let time in Soviet Union, deaeration of concrete was realized on industrial tion of concrete was realized on industrial scale under supervision of TsNIPIL (Cen Sci Res Production Testing Lab) of "Stroitel" (Buildar) Production Testing Lab) of "Stroitel" (Buildar) Trust. Discusses methods for deseration on surface and in layers of concrete blocks and	No 11, pp 14-18	ete in Hydr A. Gerahber M. Zvenigo	10v 51

GERSHBERG, O.A. PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 161 - I

Call No.: TA681.G36

BOOK

Author: GERSHBERG, O. A., Master of Eng. Sci., Laureate of the Stalin Prize

Full Title: VACUUM-CONCRETE WORKS IN MONOLITH CONSTRUCTIONS

Transliterated Title: Vakuumirovaniye betona v monolitnykh konstruktsiyakh

Publishing Data

Originating Agency: All-Union Scientific Engineering-Technical Society of

Constructors (WNITO Stroiteley")

State Publishing House of Literature on Construction and Publishing House:

Architecture

Date: 1952

No. pp.: 60

No. of copies: 7,000

Editorial Staff

Tech, Ed.: None

Editor: None Editor-in-Chief:

Gorden, S. S., Master of

Appraiser: None

Eng. Sci.

Text Data

Coverage:

The most effective modern method of treatment of concrete is described. This method consists in the removal of excess water and vapor by the creation of a vacuum above the concrete hardening in the forms. The method is widely used in the construction of dams and large foundations for improvement of the quality of concrete and extension of its durability, particularly under winter conditions. This method has been used in recent Soviet hydro-electric constructions.

1/2

GERSHBERG, O.A.

Vakuumirovaniye betona v monolitnykh konstruktsiyakh

AID 161 - I

The book contains some interesting information for winter concrete

works.

General information for the construction engineer and technical personnel. Purpose:

Facilities: None

No, of Russian and Slavic References: 1 (1940)

Available: Library of Congress.

2/2

reserve, i.	· ; <u> </u>	<u> </u>				
Concrete						
Tachim (1908	win to standing	te. Isid '	58 a. 1922.	() as , 17	94 •	
	•					
				- 0. On manage	urr bember	195Å. Uncl.
9. Monthly	List of Russian	Accessions	, Library	or Congress,	The second secon	

GERSHERC, O.A., laureat Stalinskoy premii.

25 years' work of the Central Laboratory of the "Stroitel'" Trust.
Stroi.prom. 33 no.1:36-37 Ja'55.

1. Direktor TSentral'noy laboratorii tresta "Stroitel'".

(Building research)

GERSHBERG, Osip.Abramovich; MOSHCHANSKIY, N.A., nauchnyy red.; MARIYENGOP, G.D., nauchnyy red.; GURVICH, E.A., red.; GILENSON, P.G., tekhn.red.

[Technology of concrete and reinforced concrete elements] Tekhnologiia betonnykh i zhelezobetonnykh izdelii. Moskva, Gos.izd-volit-ry po atroit. materialam, 1957. 317 p. (MIRA 11:2)

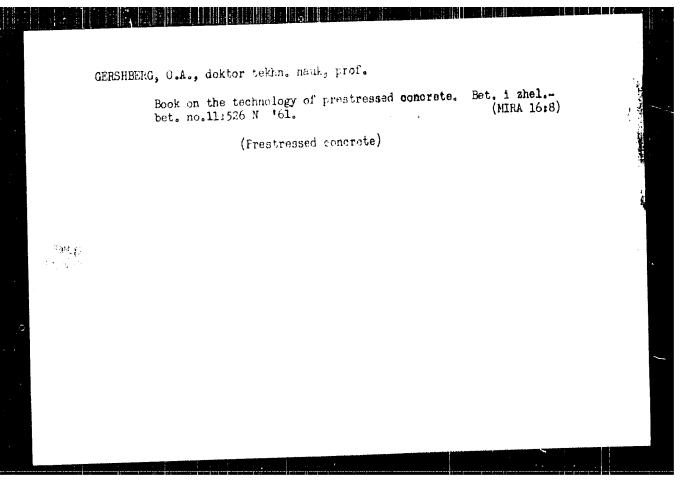
(Precast concrete)

GERSHBERG, O. A., Doc Tech Sci (diss) -- "The technology of concrete and reinforced-concrete parts". Moscow, 1959. 27 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 150 copies (KL, No 25, 1959, 131)

GERSHERG, Osip Abramovich, for Doc of Technical Sci on the basis of dissertation defended 29 - 59 in Council of the Moscow Order of Labor Red Banner Construction Engineering Institute im. Kuybyshev, entitled:  "Technology of Concrete and Meinforced Concrete Products." (Textbook fo Contraction Engineering Institute and Figure 1997)  Higher Estitutions of Learning and Interesting in Figure 1997.  (ENVISSO USSR, 2-61, 30)	r
397	

SHEYKIN, A.Ye., doktor tekhn.nauk, prof.; GERSHBERO, U.A., doktor tekhn.nauk, prof.

Concerning the results of the all\_Union competition for the best
methods of selecting concrete composition. Bet. i whel.-bet. no.9;
MIRA 14:10)
407\_409 S '61. (Concrete)



GERSHBERG, O.A., doktor tekhn. nauk, prof.

"Acceleration of concrete hardening" by [doktor tekhn. nauk]
S.A. Mironov and [kand. tekhn. nauk] L.A. Malinina. Reviewed
by O.A. Gershberg. Bet. i zhel.-bet. 9 no.11:528, 3 of cover.
N 163.

(MIRA 17:1)

GENERAL COLD Abiamov.sh, prof., doktor teknn. nank, daurent Gesudarstvernoy premid; VOLAHIMEKIY, A. N., prof., retsenzent; SIZOV V N., prof., doktor tekhn. nauk, retsenzent; IVANOV, F.M. kand. tekhn. nauk, nauhn. red.

[Terback gy of concrete and reinf roed concrete products]
Tekhnologica becomykh o zaclendetomykh izdelii. Maskva,
Stronodeto 1900. John. (EIRA 18.8)

1. Ruk.vii toi? karedry "leghnologiya vyazhushchikh veshchestv i betom, r" Moskivskog, inzbenerno-stroitei!nogo instituta im. V.V.Korbysheva (for Volumenskiy). 2. Rukovoditei! karedry "Stroitel!noge materialy i izdeliya" Vsesoyuznogo zaochnogo politeknologesk go instituta (for Sizov).

#### "APPROVED FOR RELEASE: 09/24/2001

#### CIA-RDP86-00513R000514910019-1

22087

-8/035/61/000/003/014/048 -A001/A101

3.1560 AUTHORS:

I.V , Arnord ban , ey. R , yeeddareD

TITLE:

The absolute spectrophotometry of the nebula NGC 7000 by means of

light filters

FFRIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 3, 1961, 29, ap-

stract 3A282 ("Izv. Krymsk. astrofiz. observ.", 1999, v. 21, 21)

228, Engl. summary)

TEXT: The authors describe the methods of photographic observations of diffuse emission nebulae and present the results of investigation of the method NGC 7000. They determined absolute intensities of nebula emission in the lines  $\lambda$  3727, N<sub>1</sub>+N<sub>2</sub>, H  $\beta$  and H  $\alpha$  4 N II], and in continuous emission hear A 0000. This singling out of the mentioned regions was performed by means of glass light filters. The contours of pass bands are given. Observations were conducted with a camera D = 640 mm, D/F = 1:1.4. The calibration of the photographs was made by a fundamentation was carried out by references to off-discuss stellar images obtained with an auxiliary camera installed on the device. The energy fluxes from the standard stars were determined from the energy distribution in

Card 1/3

20087

- 5/1857 - 1/1/16 13/16/16/16/16/ - A001 (A101

The absolute spectrophotometry ...

n est upa proprieta en el su la sur la s

spectra of stars of different spectral classes with respect to the Sum. The accuracy of emission intensity determination in absolute magnitudes amounts to  $\sim 20\%$ The changes in emission line intensities and continuous spectrum of the nebula were obtained along the selected cross sections and in the bright filaments. It is shown that continuous emission of the nebula is mainly caused by the buckground of weak stars not resolved by the photoemulsion. Electronic temperature was determined from the ratios [O II]/H eta and [O III]/H eta . It does not practically change at the transition from the zone of O III to the zone of O II; it also does not increase in bright filaments which are sharp edges of [O III] emission. The enhanced bright ness of continuous emission near the bright filaments can be explained by the Eq. mechanism of hydrogen emission. The star HD 199879 (07) is the star exciting the northern part of the nebula. However, it is not able to ionize the whole set of nebulae in this field. It is presumed that one more exciting stan or a group of stars exist between the "Felican" and "America" in the field of the "Maxican Bay", hidden from observation by a dense dust cloud. It is noted that the exciting star must be located very near the curvature center of a large arc-shaped filement of the nebula eastern edge. From the absence of stars of scentral planaes 0 or EO up to 12m in this field, the authors estimate the density and mass of the absorbing cloud. The lower limit of absorption in the cloud is  $6^{\rm m}_{\odot}$  and its mass amounts to

Card 2/3

The absolute spectrophotometry ...

1,000 0. It is surmised that the dark cloud is genetically related to the circle. The nebula. It is necessary to know distances to the nebula and to the circle. The nebula in various regions of spectrum are presented, photographs of the "America" nebula in various rays, and the protograph of the as well as photometric cross sections in various rays, and the protograph of the set of nebulae in the field investigated. There are 30 references.

Y Justical

(Abstracter's note: Complete translation)

23698

S/035/61/000/004/028/958 A001/A101

3,1510

AUTHORS:

Gershberg, R.Ye., Pronik, V.I., Shcheglov, P.V.

TITLE:

Photographing diffuse nebulae in infrared rays

PERIODICAL:

Referativnyy zhurnal. Astronomiya ! Geodeziya, no. 4, 1961, 30, abstract 4A321 ("Izv. Krymsk. astrofiz. observ.", 1960, v. 22, 150-

151, Engl. summary)

The authors report on the results of photographing bright gaseous netulae NGC 6611, 6618 and 6523 in infrared region by means of an electronia-optical converter meinted on a high-speed camera with D=640 mm, D/F=1:1.4. It was supposed to detest emission in region  $\lambda\lambda$  9060-9540. The region was singled out by a filter absorbing light with  $\lambda$ < 8000 and by the long wavelength sensitivity border if the equipment. A 3C -7 (ZS-7) additional filter permitted the solution of the problem about the nature of emission, i.e. emission [S III] or continuum, because by narrowing the pass band by 2.5 times the filter did not practically change transmission of emission at  $\lambda$  9540. No emission from the nebula NGC 6611 was

Card 1/2

S/035/61/DCC/104/028/058
Fnotographing diffuse nebulae in infrared rays

detected, and in the mebula NGC 6523 only the brightest part of the mucleus was noticed. Apparently the pass band used for taking the photographs was too wide. The mebula NGC 6618 is well visible in infrarel rays. There are 8 references.

V. Yestpov

[Abstracter's note: Complete translation]

Card 2/2

GERSHBERG, R.Ye.; PRONIK, V.I.; KORKIN, S.I.

Oscillographic attachment to the MF-4 microphotometer for recording intensitites. Izv.Krym.astrofiz.obser. 22:166-175 '60', (MIRA 13:7)

(Microphotometer--Attachments) (Oscillograph)

S/035/61/000/002/003/016 A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1961, No. 2, p. 20, # 2A221

AUTHOR:

Gershberg, R.Ye.

TITLE:

On the Fine Filamentous Structure and Polarization of Reflection

Nebulae

PERIODICAL:

"Izv.Krymsk.astrofiz.observ.", 1960, Vol.23, pp.21-30 (Engl.summary)

TEXT: The author describes characteristics of fine filamentous reflection nebulae in Pleiades. He discusses the nature of non-radial (relative to the lighting stars) light polarization of these objects. Physical mechanisms are considered which could explain the formation of such extended structures in clouds of HI. Apparently these filaments can not be formed in the development course of an individual cloud, and the picture observed may prove to be a result of lighting by bright stars of the fine filamentous structure inherent to extensive regions of HI. There are 24 references.

Author's summary

Translator's note: This is the full translation of the original Russian abstract. Card 1/1

GERSHBERG, R.Ye.; METIK, L.P.

Densities and masses of diffuse nebulae. Izv.Krym.astrofiz.obser.
(MIRA 13:12)

(Nebulae)

GERSHBERG, R.Ye.; PRONIK, V.I.

Reality of the peculiar nebula near 7 Geminorum. Astron.zhur. 37 (MIRA 13:12) no.6:1122-1125 N-D '60.

1. Krynskaya astrofizicheskaya observatoriya Akademii nauk SSSR. (Nebulae)

s/035/62/000/007/029/083 A001/A101

AUTHOR:

Gershberg, R. Ye.

TITLE:

Expansion of H II regions and origination of peripheral structures

in diffuse nebulae

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 35, abstract 7A266 ("Izv. Krymsk. astrofiz. observ.", 1961, v. 25, 76 -

87; English summary)

The author considers phenomena proceeding during expansion of an ionized hydrogen zone surrounding a hot star. A shock wave is propagated over the H I region, and in the H II zone density decreases. On account of density decrease, the boundary between the ionized and non-ionized regions (ionization front) moves away from the star. The problem is solved on assumption of isothermicity for the case of uniform expansion of the H II zone. An investigation of the condensed gas layer at the boundary of regions H I and H II has shown that it can shine like peripheral structures (glowing arcs) observed in several diffuse nebulae. The author holds that peripheral structures of the IC 1805, IC 1848 nebulae are of just this nature. [Abstracter's note: Complete translation]

Card 1/1

\$/035/62/000/007/025/083 A001/A101

AUTHORS:

Gershberg, R. Ye., Pronik, V. I.

TITLE:

Absolute photometry of the emission nebula NGC 6618

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 31, abstract 7A241 ("Izv. Krymsk. astrofiz. observ.", 1961, v. 26,

303 - 312; English summary)

Information is given on observations of the nebula NGC 6618 in five different spectrum bands, by means of a high-speed camera (7/1.4, D = 640 mm) of the Crimean Astrophysical Observatory. Contours of corresponding pass bands are presented, as well as reproductions of nebula photographs and charts of brightness surfaces in absolute units for five different spectrum bands.

[Abstracter's note: Complete translation]

Card 1/1

s/035/62/000/007/030/083 A001/A101

AUTIOR:

Gershberg, R. Ye.

HARD IS SANDARING REPORTED TO A DESCRIPTION OF THE RESERVE OF THE

TITLE:

On temperature in the transition region of interstellar medium

between zones of H II and H I

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 35 - 36, abstract 7A267 ("Izv. Krymsk. astrofiz. observ.", 1961, v. 26,

The author considers problems connected with determination of electron temperature in the transition region of interstellar medium between zones of H II and H I. He investigates the dependence of the average energy of photo-electron, formed in the radiation field of a hot star during ionization of interstellar hydrogen; on the optical thickness T. One-dimensional problem is solved rigorously. For the plane problem a rough approximation has been found. It is shown that effect of scattered Lc-radiation sharply reduces the increase with , and this effect very little depends on the temperature of scattering medium within the range from 2,000 to 14,000 K. At  $\tau \approx 1.5$  a conscattering

Card 1/2

S/035/62/000/007/030/083 4001/A101

On temperature in...

siderable part of photoionizations is produced by scattered Lc-quanta, and at \$7000 even the overwhelming part. All calculations are conducted for two models of early stars 07-08 and BO-BI V. Emission efficiency of various forbidden lines in cooling interstellar medium is estimated. It is shown that submillimeter radiation of neutral oxygen atoms is comparable in this respect with radiation of ions of carbon and silicon (in H I zones and in the H II - H I transition region). The author presents the results of determining electron temperature in the outer structural details, bright rims and "drapery", of the diffuse nebula NGC 6523. No marked difference was detected between temperatures of these formations and those of innermost parts of the nebula. There are 27 references.

Author's summary

[Abstracter's note: Complete translation]

Card 2/2

, u	ERSHBERG, R. Ye.
	Optical thickness of diffuse nebulae in Halines. Astron. zhur. 38 no.2:250-255 Mr-Ap '61. (NIRA 14:4)
	1. Krymskaya astrofizicheskaya observatoriya AN SSSR. (NebulaeSpectra)
;	

BOYARCHUK, A.A.; GERSHBERG, R.Ye.; GOLLANDSKIY, O.P.; KOPYLOV, I.M.; NIKONOV, V.B.

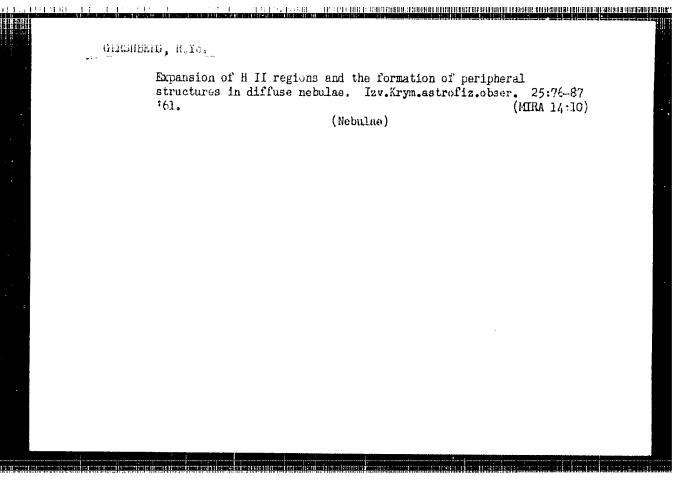
"Vistas in astronomy". Reviewed by A.A.Boiarchuk and others. Astron.ahur. 38 no.41777-782 Jl-Ag '61. (MIRA 14:8)

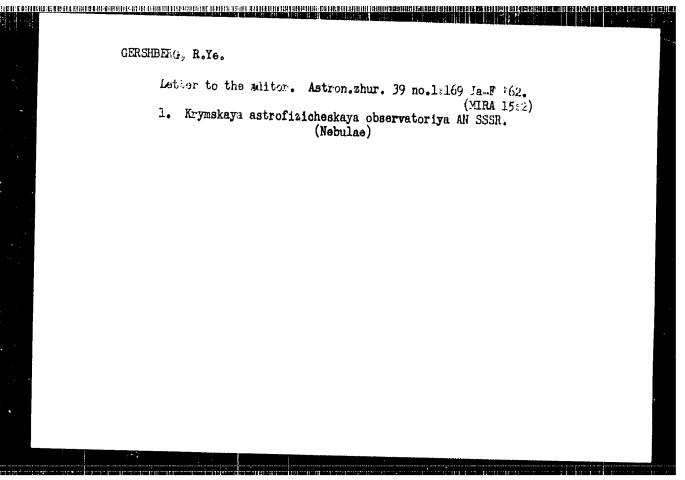
1. Krymskaya astrofizicheskaya observatoriya AN SSSR. (Astronomy)

GERSHBERG, R.Ye.

Expansion of H II regions and the formation of gravitationally stable protostars. Astron.zhur. 38 no.5:819-827 5.0 'f1. (MIRA 14:9)

1. Krymskaya astrofizicheskaya observatoriya AN SSSR. (Interstellar matter) (Stars)





S/033/62/039/006/013/024 E032/E314

AUTHOR:

Gershberg, R.Ye.

TITLE:

On the association between filamentary nebulae which are remaints of the envelopes of type II supernovae and  $\Pi_\alpha$  -emission stars

PERIODICAL: Astronomicheskiy zhurnal, v. 39, no. 6, 1962,

TEXT: The association was first discovered by N.V. Dolidze (Astron. tsirk. no. 203, 8; no. 204, 13, 1959; Byull. Abastuman-skey astrofiz. observ., 25, 105, 111, 1960). There are three possibilities as far as the interpretation of this association is concerned, namely: 1) stars with different masses may be simulateneously formed in stellar clusters and whilst the heaviest of them evolve rapidly through the hot-star stage and explode as sequence; 2) the effect may be associated with phenomena analogous to the Earth's radiation belts - the upper layers of the field them, and 3) the phenomenon may be described in terms of the Card 1/2

On the association ....

5/033/62/039/006/013/024 E032/E314

physical nature and evolution of compact details in the peculiar nebulaeconnected with the Cas A radiation source which might play the role of "protostars". The compact formations might in time evolve into H -emission stars since S.B. Pikeliner (Astron. zh., 38, 21, 1961) has interpreted them as accumulations of interstellar matter. It is shown that the latter interpretation is possible but further photometric and spectrophotometric data will be required to elucidate the obysical conditions in nebular objects connected with Cas A.

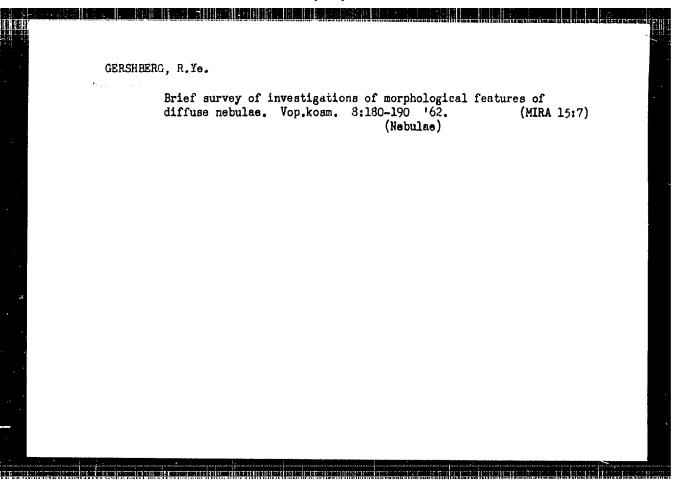
ASSOCIATION: Erymskaya astrofizicheskaya observatoriya Akademii nauk SSSR (Crimean Astrophysical Observatory of

the Academy of Sciences, USSR)

SUBMITTED:

November 21, 1961

Card 2/2



5/712/62/028/000/00**5/020** E032/E114

AUTHORS: Artamonov, B.P., and Gershberg, R.Ye.

TITLE: A study of the brightness fluctuations in the diffuse

nebula NGC 6618

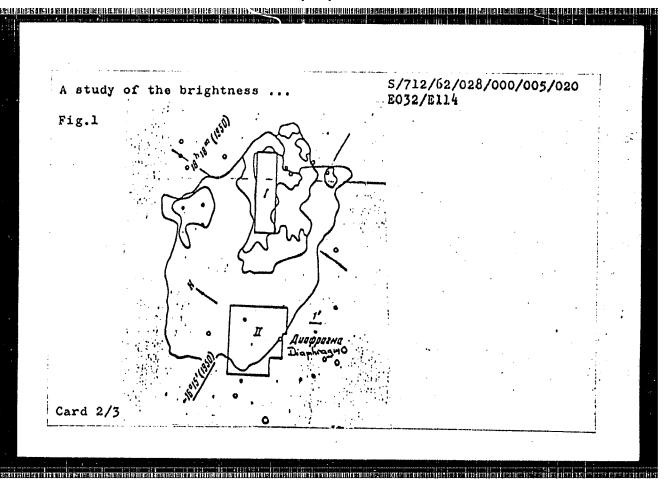
SOURCE: Akademiya nauk SSSR. Krymskaya astrofizicheskaya

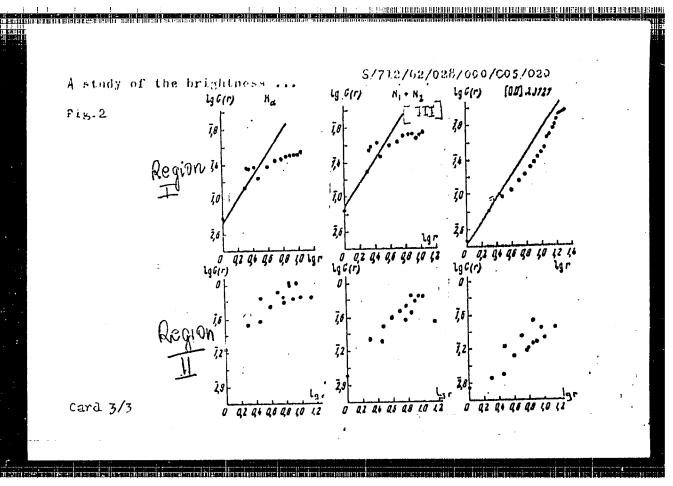
observatoriya. Izvestiya. v.28. 1962. 156-158

TEXT: The function  $G(r) = \Delta I^2(r) / I^2$  was computed for two regions of NGC 6618, where  $\widetilde{I}$  is the average surface brightness and  $\Delta I(r)$  is the difference in brightness between two points separated by a distance r. The two regions are denoted by I and II in Fig.1, and the results obtained are given in Fig.2. The straight lines have slopes of 4/3 as given by S.B. Pikel'ner (Izv. Krymskoy astrofiz. obs., 11, 1954, 34). There are 2 figures.

November, 1961

Card 1/3





APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514910019-1"

S/712/62/028/000/006/020 E032/E114

AUTHOR: Gershberg, R.Ye.

TITLE: Radio emission of planetary nebulae and a determination

DE DESTANDADES RENDES AND HER RENDES BROWNEST AND AND LECTROPORT OF THE PERCENTIAL PROPERTIES AND THE PERCENTAGE BROWNEST AND AND THE PERCENTA

of the distance to these objects

SOURCE: Akademiya nauk SSSR. Krymskaya astrofizicheskiy

observatoriya. Izvestiya. v.28. 1962. 159-165

TEXT: The distance determination is based on the following

formula:

 $R = 1.85 \cdot 10^{40} \frac{F_{\gamma}}{\phi^3 n_c^2}$  (8)

where: R is in pc,  $\phi$  is the angular diameter in seconds, Fo is the flux density in W/m<sup>2</sup> cps ( $T_e$  = 15 000 °K), and  $n_e$  is the electron density. The method may be used for radiotransparent nebulae and is not sensitive to their optical thickness in the Lyman continuum. In the above formula the density may be deduced independently of distance (M.J. Seaton, D.E. Osterbrock, Astrophys.J., 125, 1957, 66). The table shows some of the Card 1/3

Radio emission of planetary nebulae... 5/712/62/028/000/006/020 E032/E114

results obtained R9 - present results; R<sub>10</sub> - I.S. Shklovskiy's results (Astron. zh., 33, 1956, 222, 315); R<sub>11</sub> - corrected values of Shklovskiy's results, using more accurate photometric data (G.W. Collins II, C.T. Daub, C.R. O'Dell, Astrophys. J., 133, 1961, 471). There is 1 table.

December, 1961

Card 2/3

Radio emission of planetary nebulae... 5/712/62/028/000/006/020 E032/E114

Table

		D	istance,		Mass,
Object	n e	R <sub>9</sub>	R <sub>10</sub>	R <sub>11</sub>	10 <sup>-3</sup> -м
IC 418	3.9 104	100	1300	580	0.10
NGC 6543	6.0 10 <sup>3</sup>	620	770	520	13
NGC 6572	8.3 10 <sup>3</sup>	{ 900 540	1200	{580 {620	{24 5.3
NGC 6853	3.7 10 <sup>2</sup>	34	150	87	0.77
NGC 7009	6.0 10 <sup>3</sup>	240	550	390	2.4
NGC 7293	1.6 10 <sup>2</sup>	17	50	50	0.54

Card 3/3

#### GERSHBERG, R.Ye.

Association of filamentary nebulae - remnants of envelopes of type II supernovae with H<sub>oC</sub> emission stars. Astron.zhur. 39 no.6:1033-1037 N-D '62. (MIRA 15:11)

1. Krymskaya astrofizicheskaya observatoriya AN SSSR. (Nebulae)

GERSHBERG, R. E. [Gershberg, R. Ye.], kand. na fiziko-mater. nauki KOVACHEV, Bogomil, kand. na fiz.-mat. nauki [translator]

Studies on the interstellar substance, conducted by the Crimean Astronomical Observatory. Priroda Bulg 12 no. 5: 108-113 S-0 '63.

BOYARCHUK, A.A.; GERSHBERG, R.Ye.; PRONIK, V.I.

Formulae, graphs, and nomograms for a quantitative analysis of the spectra of emission objects. Izv. Krym. astrofiz. obser. 29:291-314 '63. (MIRA 16:10)

ACCESSION NR: AR4039237

8/0269/64/000/004/0024/0024

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.187

AUTHOR: Belyakina, T. S.; Boyarchuk, A. A.; Gershberg, R. Ye.

TITIE: Energy distribution in the continuous spectrum of novalike and symbiotic stars

CITED SOURCE: Izv. Kry\*msk. astrofiz. observ., v. 30, 1963, 25-41

TOPIC TAGS: star, symbiotic star, novalike star, astronomy, astrophysics, stellar spectrophotometry, slitless spectrograph, emission line, nebula, planetary nebula

TRANSLATION: This article presents the first results of stellar spectrophotometric studies made using the 2.6-m reflector of the Crimean Astrophysical Observatory. There is a brief description of the slitless spectrograph used in the observations and a detailed discussion of the method used
for investigation of the energy distribution in the stellar continuous

Card 1/3

ACCESSION NR: AR4039237

spectrum. On the basis of 30 spectrograms the authors obtained the energy distribution in the spectrum of the novalike star AG Dra and in the spectra of three symbiotic stars (Z And, AG Peg and BF Cyg). For each of these stars the authors determined the energy distribution in the spectral region / / 3300-5000 and have given a physical interpretation of the observed distribution. The spectrum of AG Dra corresponds to the integrated spectrum of a star with a spectrophotometric temperature of 2800°K and ionized hydrogen at Te = 20000°K; the spectrum of Z And is interpreted as the joint radiation of a star with T = 36000K and hydrogen plasma at an electron temperature of 300000K. The spectra of AG Peg and BF Cyg in the studied region of the spectrum are caused by the luminescence of ionized hydrogen at electron temperatures of 30000 and 800000°K respectively. An estimate is made of the optical thicknesses of all gas components of the studied objects; in the H & line they are several units. Estimates are given of the equivalent widths of the brightest emission lines and the determined energy distribution in the continuous spectrum has been used to compute the energy relationships between the emission lines. A preliminary quantitative analysis of the emission lines made for BF Cyg confirms the results obtained from the continuous spectrum. Investigation of the planetary

enterkend ja bester kosstendig i mesokandidi kasi konstitutu kostut sundi kunstuaten sustensia i konstensia i

Card 2/3

ACCESSION NR: AR4039237

nebula IC 4997 served as additional control of the correctness of the method as a whole. Bibliography of 17 items. Author's abstract.

DATE ACQ: 12May64

SUB CODE: AS

ENCL: 00

Card 3/3

ACCESSION NR: AR4042151

\$/0269/64/000/006/0077/0077

SOURCE: Ref. zh. Astronomiya. Otdel'ny'y vy'pusk, Abs. 6.51.566

AUTHOR: Gerahberg, R. Ye.

TITLE: Investigation of emission nebula NGC 6618. Outburst of supernovae, and

diffuse nebulae

CITED SOURCE: Izv. Kry\*msk. astrofiz. observ., v. 30, 1963, 90-103

TOPIC TAGS: supernova, emission nebula, nebula, interstellar absorption,

diffuse nebula

TRANSLATION: Arguments are given in favor of the assumption of the relatively recent outbursts of Type II supernovae in nebula NGC 6618. First, according to observation data, spectrum of glow of this object should be of thermal nature. However, the 5 stars (brighter than 12<sup>m</sup>.5) of classes 0-B known in this region cannot ensure sufficient ionization of this powerful gaseous complex. Therefore it is necessary to assume the presence of unregistered 0-B stars with a brightness

Card 1/3

分表更多的好好技術企会的企作主题的问题的问题的技术。"这些问题的时间上列来给你还没有来的好的特别的现代会看到好的特别的现代,这种特别是同时时间的这种时间的被解的特别,我们可能是这种时间的现在是最级的特别。

ACCESSION NR: AR4042151

weaker than  $12^{m}$ 5. Re-evaluation of the distances to O-B stars known in a given . region of the sky, based on the presence of systematic divergences of the MK spectral classification and that given by I. I. Pronik (Journal of Abstracts, Astronomy, 1961, 4A407; 1962, 1A265), and also determination of the distance to NGC 6618 by radioastronomy data, taking into account not only circular but also radial motions of the gaseous component of the Galaxy, lead to coinciding values of ~300 ps. The presence, in the region of the radio-center of the nebula, of interstellar absorption ≥11m, explains the absence, in the catalogs, of O-B stars (12.5), since the absolute value of the latter is only  $\sim 7^{m}$ . Second, near NGC 6618 there are known 3 stars of classes 0-B with tangential velocity components of the order of 220+190, 310+160, and 390+160 km/sec; the region of "emanation" of these is inside the nebula. Their kinematic ages are within the limits (1.4 - 2.2) 104 years. Third, photographs in Hd, made with long exposure, show that emission nebulae IC 4706, IC 4707, and S 193, encompassing the bright central part of NGC 6618 from the west, are closed with a luminescent semiellipse, encompassing this object from the east. All this leads to the conclusion con-

Card 2/3

cerning the close complex in the Ori	similarity of the complex NGC 6618 with the corresponding known
II supernovae. If,	nowever, we assume identity of the market with outbursts of Type
then it is possible $\sim 10^5$ years. Considerately per of NGS 441	to estimate the age of the former. This age is equal to
agnitudes on be	o and the Kinematic ages of its "goods of the
s possible to esti	mate the all common really satisfactorily runts
hich is ne~80 cm	The conclusion is drawn that any elope of NGC 6618.
hich is ne~80 cm utbursts of supern xtended weakly lum entral parts	Turthermore, it The conclusion is drawn that apparently, as a result of inescent emission fields with the conclusion appear
hich is ne~80 cm <sup>-</sup> utbursts of supern extended weakly lumentral parts, of 1 and that outbursts	made the electron concentration in the furthermore, it
hich is ne~80 cm <sup>-</sup> utbursts of supern extended weakly lumentral parts, of 1 and that outbursts	Turthermore, it 3. The conclusion is drawn that apparently, as a result of inescent emission fields with the possible formation, in the large emission complexes of dark apparently formation, in the
hich is ne~80 cm- utbursts of supern ktended weakly lum entral parts, of 1 nd that outbursts iffuse nebulae. R	Turthermore, it 3. The conclusion is drawn that apparently, as a result of considering in the latter there should appear inescent emission fields with the possible formation, in the configuration complexes of dark absorbing interstellar matter appearances.  1. Turthermore, it 3. Turthermore, it 4.
hich is ne~80 cm- utbursts of supern ktended weakly lum entral parts, of 1 id that outbursts ffuse nebulae. B	Turthermore, it 3. The conclusion is drawn that apparently, as a result of considering in the latter there should appear inescent emission fields with the possible formation, in the configuration complexes of dark absorbing interstellar matter appearances.  1. Turthermore, it 3. Turthermore, it 4.

